Band 55 protein

	10	20	30	40	50
ISR	MESAEEPLPARP				
MOUSE RAT	-DRDS-@-	S		IV	
HUMAN	RQS-S		r	IV	V-F
	60	70	80	90	100
ISR	LSVRLRALRQRQI		AVVKRQEALA	aarlrmqedli	IAQVEKH
MOUSE	L	ET	J		
RAT	L	E	J		
HUMAN	A	R-A-AV\	/	KE	
	110	120	130	140	150
ISR	KEKLRQLEEEKRE	ROKIEMWDSMQE	EGRSYRRNPGI	RPQEEDGPGPS	TSSSVT
MOUSE			KS-		-/I
RAT			K		-/I
HUMAN	K		KKG-AKI	K5	-/
	160	170	180	189	
ISR	RKGKSDKKPLRGN				
MOUSE	P		S		
RAT	P		۸ ۵		
HUMAN	/-RRC	}S	A- S		
@=R or S					
* = R or Q					
\underline{A} = mixture	of A and V				

Figure 1

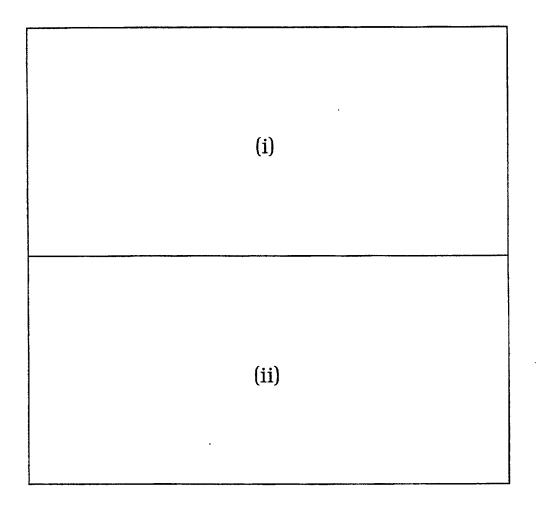
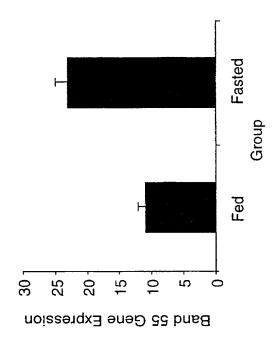
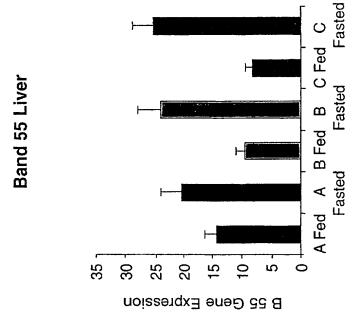


Figure 2

Band 55 Liver

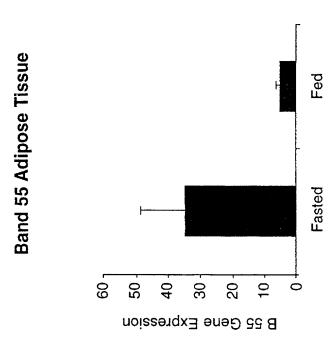


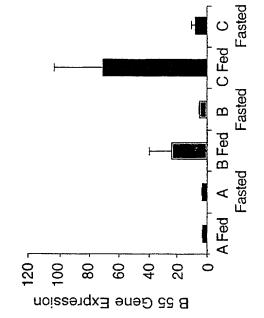


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Band 55 Adipose Tissue

Figure 2(ii)





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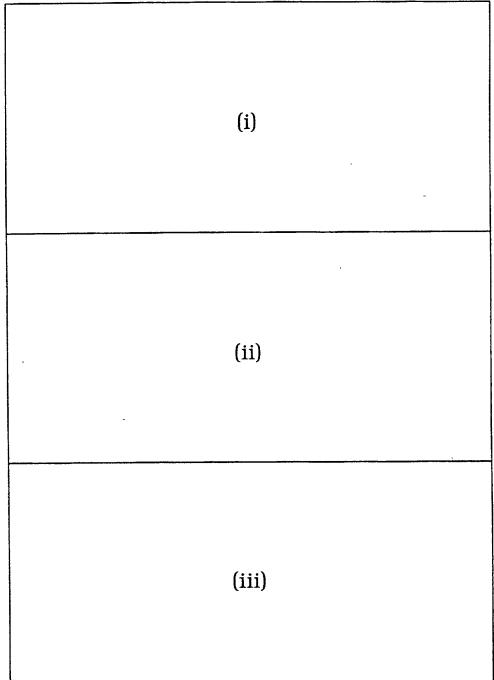


Figure 3
SUBSTITUTE SHEET (RULE 26)RO/AU

The Hall the first of the first

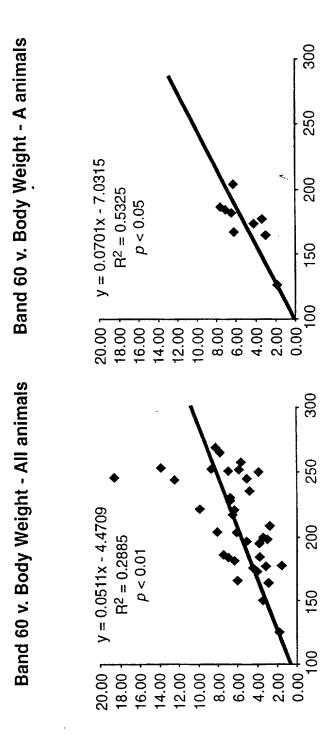


Figure 3(i)

Band 60 v. Body Weight - B animals

Band 60 v. Body Weight - C animals

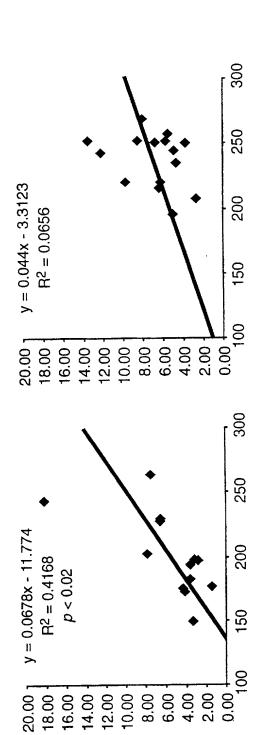


Figure 3(ii)

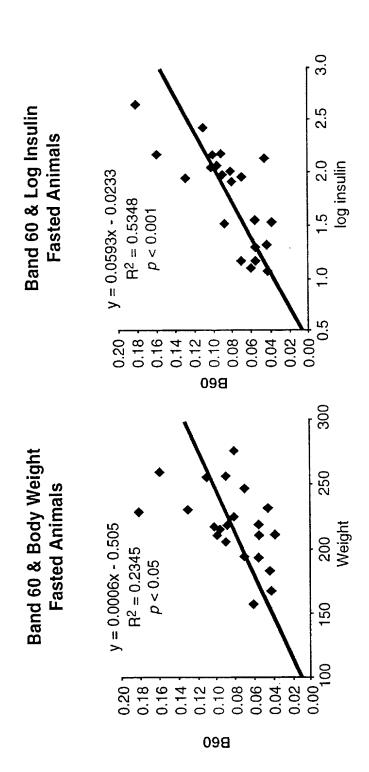


Figure 3(iii)

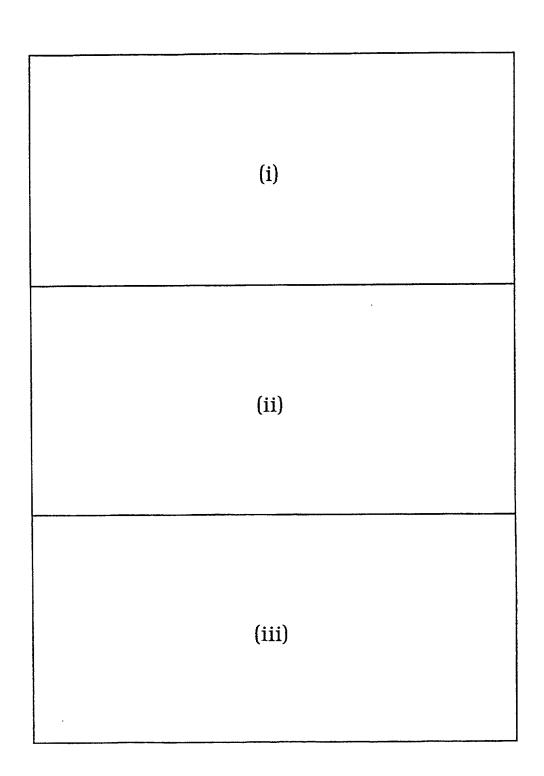


Figure 4
SUBSTITUTE SHEET (RULE 26)RO/AU

LIVER

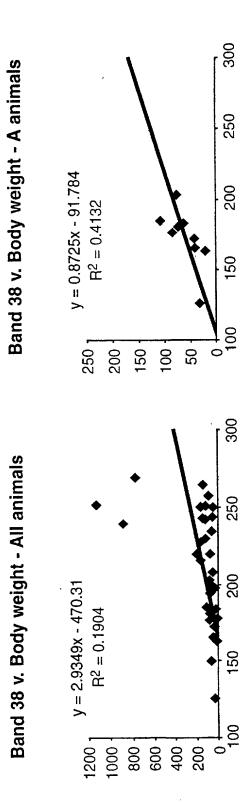
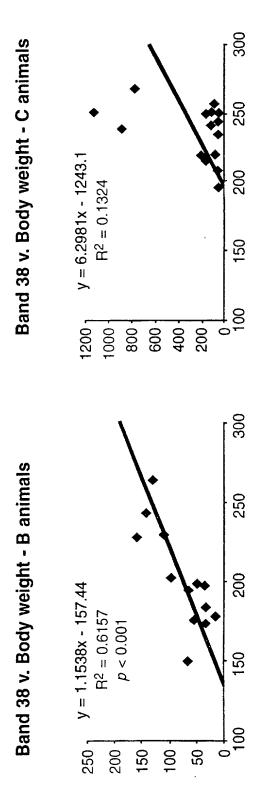


Figure 4(i)

SUBSTITUTE SHEET (RULE 26)RO/AU

Figure 4(ii)

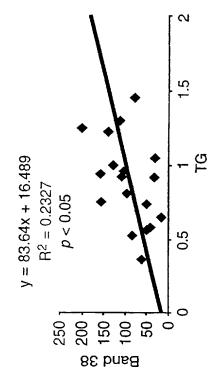
11/20



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Adipose tissue - Band 38 v triglycerides $R^2 = 0.4132$

 $^{\circ}$ Triglycerides 200 10 10 10 10 8s basa



Liver - Band 38 v. Triglycerides

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Figure 4(iii)

Genomic structure of the human band 55 gene

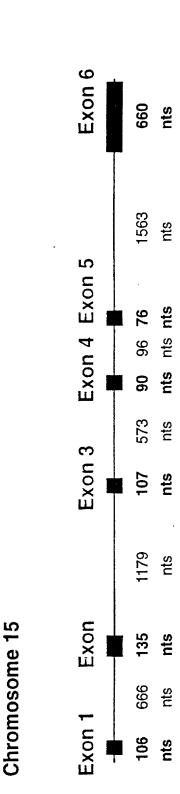


Figure 5

(i)

(ii)

(iii)

(iv)

(v)

(vi)

Figure 6
SUBSTITUTE SHEET (RULE 26)RO/AU

1	<u>C</u> AGGGCTGGG	CGGCGGCGGC	GGCGGCGGTC	ATGGAACGCC	AAGAGGAGTC
	Transcript start exon	ion initiat	ion site	translatio	n start codon
51		· -	TGGAGACCGA	GGGGCTGCGC	TTCCTGCACA
101	CCACGGGTGA	GTCGTTGCGG	GGCAGCCGGG	egegegeege	CACTTTTGCG
	T end	exon 1			
151	ACGCGCAGÇC	ATGATGGGTG	GGTCGTCCGC	CGCTGCACCG	GGCGCCGGAG
201	CCTGGGAGGC	CTGGGAACGG	TCGGGCGTTG	GCGCTTACGC	GGACCTTGGG
251	CAGCAGGCCC	GGACCTTGCG	CGGAGGCTTC	TCGGGAGCCG	CACTTCCCTG
301	GGCGGCTCGG	CTGTCCCTTG	TTTGCGCAAG	TCTTTTTTGC	GAACCAAGCC
351	CTTCCTGTGG	TAGTTACTGG	GGTCACTCGG	CCGTTGGCGT	TTGCCTCTGG
401	GACCCGTCCC	ACACAGCCCC	ATACACACTC	CTGACTCCCC	GCGCTGTCAC
451	CCCTTTCTAT	GTGGCTCTGA	AAGGCCTTTG	CCTTCCTGAT	TCAGATTAGT
501	TGCTCTTCAT	TCTTCAAAAC	CCAGTTGCTG	TGCCCTCCAC	ACTCTAACTG
551	CCCCCGACTC	CCCAGATGGT	TGGGAAGTCT	CACTTCTCAG	TGATCCCTGA
601	ATTGTCGCAC	TTCTTGAGTT	CGTGTTTTAA	CGATCTACTT	AGGAGGCTTT
651	TTCCTCAGCC	TAGACCATGA	AGGCTTTGAG	GGCAGGAGTT	ACACTTTGTG
701	TTTGTTGAGT	CTTATGGAAA	GGTCAACTAG	TAGTGTCATT	TTTAGTTTTT
751	TGAAAACTGT	TTTTCTTTTC	AG <u>T</u> GGGCTCC	CTGCTGGCCA	CCTATGGCTG
			start e	con 2	
801	GTACATCGTC	TTCAGCTGCA	TCCTTCTCTA	CGTGGTCTTT	CAGAAGCTTT
851	CCGCCCGGCT	AAGAGCCTTG	AGGCAGAGGC	AGCTGGACCG	AGCTGCGGCT
901	GCTGTG <u>G</u> GTT ♠	AGTGCCTGAT	AACCGAAATG	AAAGCGGTGG	TTTTGCACCT
	end exc	on 2			

Figure 6(i)
SUBSTITUTE SHEET (RULE 26)RO/AU

951 CCTTTATATT AAGAGTTAGT CTCTTAGTAA AAGTAAGAGG GGCCACAGA 1001 GAAGACCCTG TCTCTATTTA AAAAAAAAA AAATAGCCGG GAGTGGCGGC ACGCACCTGT AGTCCCAGCT GCTCAGGAGG CTGAGGCGGG ATAATCACTT 1051 GAGTCCAGGG AGTCAAAGCT GCAGTGGGCT ATGCTCGGGC CACACTACAC 1101 1151 TCCAGCCTGG GCAATTGATT GAGACCTTGT CTTTAAAAAA AAAAAAAAA AAAAAGTAGG AAGTATATGG TTCTCGGTGG GGCGCGGTGG CTCACACCTG 1201 1251 TAATCCCAGC ACTTTGGGAA GCCGAGGCAG GAGGATGACT TGAGGTCAGG 1301 GGTTCGAGAA CAGCCTGGCC AACATGGTGA AACCCTGTCT CTACTAAAAA TACAAATATT AGTGGGGCGT GGTGACGGGC ACCTGTAATC CCAGCTATTA 1351 1401 GGGTGGCTGA GGCAGGAGAA ATCGCTTGAA CCTGGGAGCT GGAGATTGCA GTGAGCTGAG ATTGTGCCAC TGCACTCCAG CCTGGGCAAC AGAGTGAGAC 1451 TGTCTTTTCT TTCTTTTTTT TTTTTTTTC TATGAGATGG AGTCTAGCCT 1501 1551 TGTTGCAAAG AGCGAGACTC TATGAGTAGA CGTTATGAAT AGAAATGAGT TCATTTCTAT TCATAATGCT ATTTGGAAGG ATTTTTCTTT TCTGTAGAAA 1601 CAAATACTTA AGAATCTTCT GCGCTAATTA AGGGATGGAT AATGATTTAG 1651 1701 AAAACTTTAT ATTTCCTTGG TAGTCTTCCA GGATTCTAGT CAGCCTAGAG ACTGTGGGTG TCACTGAGGT ATCCAAGATG TGCTCTGTGT GGCCACTATC 1751 1801 CCAGGCTTTA TGAATCGGAA TTGCTCAGGG GAACTCAGAA ATTGGCATTT CTAACAGATT TCTGGTGATG TAGATATTTC GGGCTAAAAT CCGTGGCTCA 1851 1901 GCAACAGACC CCTGCCCCCT GAAGCAGTAA AATGTATGCA GAGGGGTTAG GAGTACTTAT GTAAAAATAT GTTGTTTCAT TGTCTGATAT CCATACCTCT 1951 2001 TTATACTTTT AATAATATGG ACACTCAAAA GTTTCTATTT TATATTGTAC

Figure 6(ii) SUBSTITUTE SHEET (RULE 26)RO/AU

2901

17/20

2051	ACAGTGCTTT	ATCTCCATTT	TTTTCTGACA	TTTTAGAACC	TGATGTTGTT		
				sta	art exon 3		
2101	GTTAAACGAC	AAGAAGCTTT	AGCAGCTGCT	CGACTGAAAA	TGCAAGAAGA		
2151	ACTAAATGCG	CAAGTTGAAA	AGCATAAGGA	AAAACTGAAA	CAAGTATGAA		
					T end exon 3		
2201	CTGGTTTCAG	TTTGAATGTG	TGCATAGAAA	TTGTCTGAGG	TTTAGTGGCT		
2251	AACGATGCCT	GTGTCTGTGT	TGTCTATAAG	CTTCTAGGAC	CAGGTCCTAT		
2301	CCCATTAGAT	TCAATAAGCA	TTTCAGTTCC	TACCATGTAA	GTATTGGTGA		
2351	TATCAAGAAG	AATACACGAT	TGTTAGGGAA	CACTAGATGT	GTGAATATAT		
2401	TACCATGAAA	GGTCCAGAGC	ACAAAAGGAG	GGACAGGCTG	GAGCAGGGAG		
2451	CATGTGAGTG	TGTGTGTGCA	TGTGCCTGTG	TCTTCCCCAT	TACCAAAAAT		
2501	GTCCTGACAG	GAGTGAGTTT	CAGAAGAATG	GAGTCAGTAA	TCTTTTTCAT		
2551	GAAACATTTT	GCTTTCTTTA	ATAGTGTACA	AAAACCAAAG	CTGCTCTATG		
2601	TGAGTTAAAC	TCACACTACC	AGATCACAAC	AGTTTTATTA	ACTAAAGAAA		
2651	ACGAGGGTGA	AGTTTGTTCT	GAAAGACATT	TAAATTAAGA	ATTATCAGAG		
2701	TTAGCTTTGT	CTTTGAGAGA	AATGGCAGCT	TCTGAATTCT	TTCTGTAAAA		
2751	TGTGATTGTT	TCTCAGCTTG ▲	AAGAAGAAAA	AAGGAGACAG	AAGATTGAAA		
start exon 4							
2801	TGTGGGACAG	CATGCAAGAA	GGAAAAGTT	ACAAAGGAAA	TGCAAAGAAG		
2851	CCCCAGGTGA	CTGGAGACCT	CGGCCGGCTG	GCATGCGGTA	GATGAAGATT		
	end exon 4						

Figure 6(iii) SUBSTITUTE SHEET (RULE 26)RO/AU

GCCAAGTAGA ATGTTTTAAT TGCTTCTTAC ACTACTGTGT GTGTTCAAAC

AGGAGGAAGA CAGTCCTGGG CCTTCCACTT CATCTGTCCT GAAACGGAAA

**
start exon 5

3001 TCGGACAGAA AGCCTTTGCG GGGAGGAGGT AAGCACCACT GATGTCAAAT

end exon 5

3051 GTTAACAGAT TTTCAACACT TACAGGATAT AGTTACCTTT TAAGAACAAG 3101 ATTGTTTGTT TCTTTGTCCA TAAATTAAGA CTAATTCCTT AGGATTGTGA 3151 AGATTCAATA AAGGAAACAG ATGCAAATCA CCTCCTAGGT CCTCACTAAG 3201 TACTTAGAAG GATTGTACTT ATAGTATTCT AACTTGATCC TTCTGCAGCC 3251 CCGTAGAGGG AGAGCTAAGT AGGGTGAGGA ATTGTCTGCC AATCTTCAGA 3301 TGAGTGTCAA GGAGCTGGAA CACAGTGGTT TTGGTCTTTC TGGCTGGGAC 3351 CACCTTGTTT CTTGCAAATA ACAAGGAGTA GCAGACAGAT GCTCATCCAA 3401 AGCTGCTTCC TGTGTGCAGC ACTGCCCCGG GGACTCTGGA TGATGCCACA 3451 GCAGTCTGTC TTCATCCCAT CCCTGAGAAT TTCAAATCTG GGAAGATGGG 3501 ACTCACAAAC GAAAATAAGC AATCCTTGGT GATTCTGGCT AAGAGTTGCA 3551 AGTTACTGCT GAGGAAGGAA AGAACAAACA CACTAGAACA CTGTAGGAAC 3601 CAAGGCGGAA GATTTTGTAT CCTCCATAGG AGGAGAGGGG CACCGCAGAG 3651 GCCCTGATGG TGTCTTTGAG GACTGAGGAA AGACTGGGGC ATGGGCTCCA 3701 AGGCAGCAGG GCCACAGACT TGGCTGACCT TAAACGCTGA GCTGTAATCC 3751 CCTTTGTGTC AGAAGACTAA ACCTGGCTTG CTGTAGAGAA GGTGATGCAT 3801 CTGGAAAGAA AATGCTATTT TTAAATGGTC CTGCCGGAAG CTTATTTTTA GACACATAGA GGTGATATTT AGGAGAGGAA TGGAAATCGT AGAAGATGGA 3851 3901 ATGCAGGGTG TGCTTGCCTG CACGGCCTCT TTCAGCATCC CCAGCATTTC 3951 TGAGCTGGGA CTTTTGACTA GCCTGGCTTT ACAAATAAGG AAACTGAGGC

Figure 6(iv)

4001	ACAGTGTTTA	ATTGCCCAAA	GATTCCACTA	TAAGTAAGGA	GTAAAAGTAA
4051	CATTTAAGTT	CTGGGTGGCC	CTAGAACCTT	AGCACTCAAC	CAGGTTACCA
4101	GTTGTGCACT	GACTTTGGGA	AGCTCATGAG	GGAGTGGGGT	GGTTGGGGGT
4151	AGGGAAGGAT	ACAGAAGACC	CCGTTCTGAC	TGGTAGAAGT	GACAAGTTTG
4201	ACTCTTGATT	TTTTTTAATC	TGTTTTCTGT	AGCGTGAACA	GCCCTTATTT
4251	GAATGTATGA	GTTTTAGTAA	GCACTGTGAT	AGGAGGATTC	ATATACTTAA
4301	ATCAGGCCCT	CTTGAGAGAG	TTTTTTGGTG	ACCCTTTTGC	ATGTGTTTCG
4351	GAGGTTGGGA	CAAAGAAGCT	GAATGACTTŢ	TTTCCCCACC	AGACAATCAG
4401	TTCAAATGGC	AATCACAATA	TAAAGGTTTT	TTTTTTTTC	ACATAGCTAA
4451	AAGGTTTTTT	TAAATGTCCC	TTAGGATCTG	TATCTTTGCA	GTGCTTTGCG
4501	TGTCACTCTC	ATAATTTTAT	TGTGGATATA	CAATGTTCCC	AGATTTTCAG
4551	ATTTTTATCA	ATACTGTTGT	GCTGCTTTTC	TGTCCTCCCA	GGTTATAACC
				s	T tart exon 6
4601	CGTTGTCTGG	TGAAGGAGGC	GGAGCTTGCT	CCTGGAGACC	TGGACGCAGA
4651	GGCCCGTCAT	CTGGCGGATG	<u>A</u> GGCTAAGAA	TCTTGTTAGT	GTCACTTTTG
			translati	on stop cod	on
4701	ACATTAGCAA	GATGAACCCT	TAACCCTCGA	TTCAATTGCC	TTACGCACGC
4751	TTTTCACAGT	GACTAGCCAA	GGGGAGGTGG	GGTTGATTTC	TGTTCCTAAC
4801	TACACCTGCA	TATGTCAGGG	CTCCAGTCAG	CAAAAGGTAT	AGATGTTGCC
4851	TCTAGGCATG	AGGTCATTGG	TCACATTCTA	CTTGGAGACA	GTGATTGCAT
4901	TCATTGATTT	CATGGTTAAT	TGCTAGTTGG	TAGGTAAAGG	CCTCTAGATG
4951	ATTAGCAATC	TTGATAAAAG	AGGCCTAGTA	ATGTTCTTTT	GAGGTTAGAA
5001	ATCCTTGCTG	CTAGGACAGT	CTCTGTGACA	GGTTGCGTTG	ΔΔΨ CΔΨCΨCΨ

Figure 6(v) SUBSTITUTE SHEET (RULE 26)RO/AU

· .	transcripti end exon 6	ion terminat	tion site		
25,1	<u>C</u> ★				
201	AGATTTATGG	ACTTCAATTT	GTCTATCAAA	CATTAAATAG	CTTTTTATTA
5151	CGAAACTATT	TAAAAAACAA	GAATAACATT	TTTAGCATCT	TTATTCAAGG
101	ATGGGGTTTG	TTTCTGTATA	TTTATTTTTA	TGTACAGAAC	TTTGTAAAAA
051	TCCTTATCAA	TGGTGAGCCC	ACCAGTGAGG	ATTACTGATG	TGGACAGTTG

Figure 6(vi)